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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/686,174	10/14/2003	William R. Cawthorne	GP-304120	GP-304120 3796	
7:	590 07/01/2004		EXAM	INER	
Leslie Hodges General Motors Corporation, Legal Staff, Mail Code: 482-C23-B21 P. O. Box 300 Detroit, MI 48265-3000			TO, TUAN C		
			ART UNIT	PAPER NUMBER	
			3663		
			DATE MAILED: 07/01/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	· · · · · · · · · · · · · · · · · · ·					
		Application No.	Applicant(s)			
		10/686,174	CAWTHORNE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tuan C To	3663			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 Oc	ctober 2003.				
·	This action is FINAL . 2b) This action is non-final.					
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)⊠ 6)□ 7)□	Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) 1-18 is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>14 October 2003</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to ath or declaration is objected to by the Examine	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10/14/2003.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)			

Application/Control Number: 10/686,174

Art Unit: 3663

DETAILED ACTION

This application is in condition for allowance except for the following formal matters:

In the specification, on page 6, paragraph 0022, the copending application serial numbers have not been provided.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

The following is the Examiner's statement of reasons for the indication of allowable subject matter:

During searching the examiner has found none of the references, either alone or in a combination, teaches or suggests the limitations as claimed by the applicant. It is found that there are some prior art are relevant to the Gas-Electric vehicle or hybrid vehicle in which the battery, the charging and discharging states were taught. For example, in the Nakayama et al. patent, the state of charging and discharging of a hybrid vehicle is quickly controlled, and the generator discussed in the patent as represented in the patent for charging the battery, a motor for driving a vehicle and performing discharging the battery. In the Nakayama et al. patent, a controller was provided for controlling charging/discharging the battery as the following: "the charge/discharge controller controls charge/discharge with respect to the battery such that the state of charge of the temperature of the battery is a temperature exceeding a

predetermined temperature". The examiner has found that Nakayama et al. do not disclose such the limitations as claimed. The reference to Mizuta et al disclose a system and method for indicating the battery states of a hybrid vehicle. For example, figure 3 of Mizuta et al. shows a graph representing a condition of the battery current change depending on the running condition of the hybrid vehicle. However, Mizuta et al. do not disclose a wide limit mode or setting a wide limit mode discharging power limit when the wide limit mode is active that is greater than the discharge power limit.

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (703) 308-6273. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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June 22, 2004